The Projected Fast Cruiser, Driven by Fifteen Screws and Equipped with Turbine Engines and a Rapid-fire Battery, Would Outrun any War Ship Afloat-From Plans of Lieutenant J. W. Graydon, formerly of the United States Navy.



BATTLESHIPS AND TO BEAT ALL THE WORLD.

hattle ships of the future. The lessons of of fuel, the war are already being applied to the The adoption of these new engines on all new craft under way for our own navy, river, lake and consting steamers, on

THE Spanish war has given a great Fourth-I will increase the speed ten impetus to naval architecture. The or fifteen knots an hour of all modern minds of the world's great naval torpedo boats, now built or building, ocnrehitects, engineers and builders are at cupying less engine space and having much work on new improvements for the line-of-less weight of machinery, besides economy buttle ships of the ruine. The lessons of of fuel

In England the British Admiralty has been occan passenger and commerce carriers, is says so, favorably impressed with the value of the as sure to come in the near future as

Memela.

turbine method of propulsion, which has steam power has superseded sail power in produced such wonderful results in the the past.

She had to climb six pairs of narrow, dirty stairs to her home speedy little Turbinia.

My destroyers are designed in three sizes, near the roof. She slept in a funny little bunk, with a rod paper. She had to climb six pairs of narrow, dirty stairs to her home all time. She never come again to me. My destroyers are designed in three sizes, near the root. She siept in a root, while the following letter to viz.: The smaller size of 100 tons, the lantern at the fact of it and a couple of Joss sticks burning at the head of it. She had nothing to do but sing songs and play to talk all the time of my little An Foon. She is going to be a two tubes, which can be fixed at various talline nearer to the retina, and thus less than the fact of it and a couple of Joss sticks burning at policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. The instrument consists principally of exercised by the apparatus brings the critical policeman say I must not go to Miss Clarke and make the trouble. to the sheatre and see her father in his green mask, and slip into the Joss house and knock her sleek little shining head on the Foon-Miss Clarke will not hurt her-but I think she cry for me; floor before the great Joss, and ask him please to make the little I think she cry for her father. He is actor at the theatre. Little mother's cough get better so that her chest should not ache with

Miss Clarke ought to know.

Miss Clarke, of the American Mission, says so, and

Now little Ah Foon has a great deal to do. She must bathe, and she must dress, and she must learn nice

"It is not easy to sleep when your little baby cry for you. I
think if Miss Clarke will not give me my little Ah Foon—I think if to eat and a clean bed to sleep in, and clean air to breathe, and clean, respectable Christians to talk to-and yet sometimes she high up. There are many stairs, the room is small. Miss Clarke cries and says she wants to go home to Chinatown and climb the six pairs of narrow, dirty stairs and smell the fish frying and the Joss sticks burning and see her queer little Chinese mother and them, my little Ah Foon and L ask her to sing to her again the funny little children's love song without any tune to it, and go to sleep at home with her own people. But Miss Clarke, of the American Mission, says no—and mission,

so little Ah Foon must stay and be a Christian.

And little Ah Foon has a piece of striped candy and a new ribbon for her doll, and she learns a new song to sing to the mission people, and they say, "Isn't she cunning?" and she forgets a little, after the manner of children.

But little Ah Foon's mother does not forget. She cannot sleep, she cannot ent, and in the night she huddles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the cannot ent, and in the night she butdles down before the children.

She ilstiend his wow—the Joss of the Christians—does he like to near "Maybe that is why Miss Clarke take my little girl—to please the Christian Joss—do you think?"

I told her that I would go and see Miss Clarke myself and tell her how hard it is to be alone in a little chinese girl cries for her mother?

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Little

Ah

Foon

and

Who

Are Now

to Be

Separated

Because

Little

Ah

Foon

Is Going

to Be a

Christian.

"Is this the mother of the little Ah Foon?" I said.

"Ah Foon!"— The queer little, doll-like creature sprang to. Miss Clarke ought to know.

She has taken away the purple jacket of Ah Foon, and the "Ah Foon!" Her moon face flux wide, blue, shiny blouse and the little scarlet and green cap, embegan to twitch.

"You know—you see Ah Foon?" "Ah Foon!" Her moon face flushed scarlet, and her mouth

When the interpreter came he told me all about it.

"The little Ah Foon is my little girl," she said.

"She is all we have, the little Ah Foon. She is six years old in mamed Dion, and is said to have proleus has too great a refractive power and given her a brand new doll to play with—and little Ah Foon "She is all we have, the little Ah Foon. She is six years old in annual Dion, and i smiles like an almond-cheeked doll. But sometimes she cries the moon of Snow. When I was sick Miss Clarke, at the mission, dueed wonderful resurts. and says she wants to go and see her mother and her father, she said she would take the little Ah Foon when I was at the It is particularly valuable in treating. The massaging instrument causes the and sometimes she even says she does not want to be a Christian. hospital. I said 'Thank you,' to Miss Clarke, and I pray to the myopia, or short sight, a disease for which hardening of the eye to disappear and the same of the eye to disappear and th Joss to remember her—that she was kind to a Chinese woman in no remedy had been found hitherto, ex- gradually restores to it its normal form, says so, and Miss Clarke, of the American Mission, really ought her trouble.

"When I come from the hospital I could not see my little Ah used by M. Landolt and other well-known this process, and from the first use file Foon, and Miss Clarke says she will keep her—she will keep her French occilists, who believe that it will amelioration is appreciable. Crystalling prove of the greatest benefit to people with myopia is more obstinate. There is, here

and I don't know. I come home and I don't know. My little Ah Ah Foon, she like to go and see him with the green mask on; she laugh then. I think my little Ah Foon cries for me, and that makes me not to sleep.

I die! She is all we have. We are poor-we must live here. Miss Clarke does not like it that we live here. But we must. It is sny bad people live in this street. I don't know; we do not see

"Ah Chow, the woman that comes to sit with me, she says my little girl away from me.

ugly old Joss on the mantel and she burns Joss sticks and she begs the Joss to bring back the little Ah Foon or her heart will break. She lives down in Mott street, up the six pairs of narrow, dirty stairs that little Ah Foon dreams of, in her clean, little bed at Miss Clarke's.

I went to see her there yesterday. The little room where Ah Foon's mother lives is clean and sunny. There's a red curtain at the door and there's a row of printed prayers on the wall, and there's a fat little, leering, yellow god on the mantel.

Ah Foon's mother sat cross-legged on the floor, sewing. She is a little, moon-faced creature, with slanting eyes and a round, supple little body.

When I went in she looked up from her sewing and looked away again, with a kind of desperate resignation at the manners of the prying Christians, who will not let a mother whose heart be sore cry alone.

"Tell her—tell the little Ah Foon—she must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must be a good little China Joss hear her cry. She must not cry. Tell her fit is not good—the that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her; and tell her that I am coming seen—soon—to find her that I a



of a dynamometer placed above the outton?

The instrument is very simple. It is adjusted to the eye on the closed eyelids at
the exact point where the massage is required. This is a matter to be determined
by the oculist. The pressure can be calculated to a gramme. The patient never
culated to a gramme. The patient never
suffers any pain. At the end of a few
minutes, eight or ten ordinarily, he feels
a slight fatigue. The massaging is immebliconged first to Meshesh, the powerful
chief of the Pasuto nation, who gave it me
a friendly offering to the great King of the
bits brother led to Chaka's assassination.
Then followed a long line of plotting and
a slight fatigue. The massaging is immebliconged first to Meshesh, the powerful
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blicons crimes for its possession among
diately stouped, and therefore cannot be rival chiefa.

the rays coming from objects after haven and many times that number of blacks. Ing passed through the cornea and the crystalline lens form their image too far came into power, and got possession of the in front of the retina and do not influence wonderful gen. His capture, slavery and the optic nerve sufficiently to produce a escape, and his gift of the tallaman to clear tuppession. Myopic persons can, Kruger in gratitude complete the history therefore, only see at extremely short distances, because of the immavability or hardening of the nerves which should addit was originally a rhombehedron in just the eye to various distances. There shape, that is, baying six sides of rhome

THE WONDERFUL NEW FRENCH
EYE-MASSAGING MACHINE.

distances from one another, according to the position of the patient's eyes. These tubes have at the end two polished glasses, which are pressed on the eyelids when the operator touches a button which controls the two tubes. He can keep exact account of the pressure exercised by means of a dynamometer placed above the buttons.

The instrument is now closely from the president of the pressure exercised by means of a dynamometer placed above the buttons.

ens the effect of refraction.

Progressive myopia is not only stopped,

\$1,000,000 Dia-

mond.

but often improved by the instrument.

any case, total blindness is avoided.

SCIENCE CAN NOW MAS-

SAGE THE EVES

cept the wearing of glasses. It has been Axillary myopia is almost always cured by

weak eyes.

ever, always an improvement. The pressurement consists principally of exercised by the apparatus brings the cry

a sight ratifie. The massaging is immediately stopped, and therefore cannot be rival chiefs, injurious.

White men seeing it, finally attempted to This instrument is above all applicable secure it, but were refused. The native to myopia, which is the most general of all chief's suspicious being aroused, a way affections of the eye. In this disease the against the willess was begun which reeye is deformed in such a manner that suited in the killing of a thousand Boere, the revs combon them.

just the eye to various distances. There shape, that is, having all sides of rhom-are several classes of myopic persons, Some bold shape. It was so large that Memela's have the corner and crystalline lens too large fingers could scarcely close round it far from the retina and may be recognized across its greatest length.



by a series of five shafts, each equipped MAO with three screws. She will thus be HOW THE POPE'S DIAMOND LOOKED Her Mother. equipped with a more powerful pro-

der construction. Such a vessel will, of tises and supersede all torpedo beats and course, be anarmored. With her chormous destroyers as now designed, acting also speed she will be able to overtake or to as sconts, dispatch vessels and commerce show her heels to anything affoat. She destroyers. would make short work of such vessels as American naval architects will make a the Yale or the Harvard, and would make grave mistake in failing to recognize the things lively for the torpedo boats of the fact that the turbine engine is the engine swiftest and most vulnerable type.

Late Lieutenant United States Navy. Among other improvements to be applied to the Editor of the Journal: to the destroyers and other vessels are

These new engines are improvements on closed upon danger of a collision.

All heretofore known turbine engines. The adoption of this invention will preavoiding their mistakes and utilizing the vert mane disasters at sea. Vessels in collatest experiments. Thus I shall be able listed will, by the instantaneous and autoto provide the very latest improvements made operation of this invention, be en-

f thirty-eight knots an home.

Third-Cruisers (commerce destroyers, JAMES WHE GRAYDON,

IN THE ROUGH. pelling mechanism than any craft of medium size of 250 tons and the larger size her size now in commission or un- of 400 tons, and these three will cover the

of the future. Should they still hold on to the old-fashioned crank shaft cylinder piston engines the new navy will be in-By James Weir Graydon. ferier to the coming pavies of the world.

I am prepared to build battle liquid fuel bollers and an automatic sysships, armored cruisers, cruisers and tem of opening and closing the doors of torpedo hoats, fitted with my new system water-right compartments on board ship, of turbine engines, which will have a guar. The latter is a most important invention to anteed speed sufficient to enable them to prevent disaster at sen; by the turning of run away from, or to run away all around, a valve on deck the whole of the compartment of the compa ments are automotically and instantly

in engines, whose adoption will camble me abled to remain affoat and gain their ports of destination.

First-The heaviest battle ships a racing Had the Victoria, when rammed by the speed of thirty-five knots an hour when (amperdown, been dited with this system, she would to-day be affort to serve Her Second-Armored croisers a racing speed Majesty, and many hundreds of other like

stell a racing speed of forty knots an Late Lieutenant of United States Naty.



Which Is Making the Mother

Very

Heart-Sick

and Tearful,

and

She Says

the Chinese Joss

Will

Not Like It a Bit,

Either.